

## 2018 Current Fiscal Year Report: National Petroleum Council

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### 1. Department or Agency

Department of Energy

### 2. Fiscal Year

2018

### 3. Committee or Subcommittee

National Petroleum Council

### 3b. GSA Committee No.

452

### 4. Is this New During Fiscal Year?

No

### 5. Current Charter

01/08/2018

### 6. Expected Renewal Date

01/08/2020

### 7. Expected Term Date

### 8a. Was Terminated During Fiscal Year?

No

### 8b. Specific Termination Authority

AGEN

### 8c. Actual Term Date

### 9. Agency Recommendation for Next Fiscal Year

Continue

### 10a. Legislation Req to Terminate?

No

### 10b. Legislation Pending?

Not Applicable

### 11. Establishment Authority Agency Authority

### 12. Specific Establishment Authority

AGEN

### 13. Effective Date

05/03/1946

### 14. Committee Type

Continuing

### 14c. Presidential?

No

### 15. Description of Committee National Policy Issue Advisory Board

### 16a. Total Number of Reports

No Reports for this Fiscal Year

### 17a. Open Meetings and Dates 0 17b. Closed Meetings and Dates 0 17c. Partially Closed Meetings and Dates 0 17d. Total Meetings and Dates 0

No Meetings

	Current FY	Next FY
18a(1). Personnel Pmts to Non-Federal Members	\$0.00	\$0.00
18a(2). Personnel Pmts to Federal Members	\$0.00	\$0.00
18a(3). Personnel Pmts to Federal Staff	\$205,321.00	\$199,320.00
18a(4). Personnel Pmts to Non-Member Consultants	\$0.00	\$0.00
18b(1). Travel and Per Diem to Non-Federal Members	\$0.00	\$7,200.00
18b(2). Travel and Per Diem to Federal Members	\$0.00	\$0.00
18b(3). Travel and Per Diem to Federal Staff	\$30,000.00	\$36,000.00
18b(4). Travel and Per Diem to Non-member Consultants	\$0.00	\$0.00
18c. Other(rents,user charges, graphics, printing, mail, etc.)	\$2,400.00	\$2,400.00
18d. Total	\$237,721.00	\$244,920.00
19. Federal Staff Support Years (FTE)	1.50	1.50

**20a. How does the Committee accomplish its purpose?**

The National Petroleum Council (NPC) is chartered to provide the Secretary of Energy with advice and recommendations on matters requested by the Secretary, relating to oil and natural gas, or the oil and natural gas industries. This purpose is largely accomplished through the conduct of studies. Matters that the Secretary would like to have considered by the NPC are submitted in the form of a letter outlining the nature and scope of the study. The NPC reserves the right to decide whether it will consider any matter referred to it. Over the last 70 years, the NPC has prepared over 200 reports dealing with virtually every aspect of oil and gas supply and demand. These reports have not only served as valuable tools in the development of energy policy but also have enabled government and industry to anticipate and jointly seek solutions to current and future energy challenges. NPC reports are widely circulated and serve as references for energy analysts, industry and government decision makers, legislators, and academicians.

**20b. How does the Committee balance its membership?**

Members of the NPC are appointed by the Secretary of Energy and represent specific oil and gas industry sectors or related interests. These include balanced representation from among, but not limited to: integrated oil and natural gas companies; independent refiners, large and small independent oil and gas producers; midstream and retail oil and gas companies; construction, drilling, and oilfield services; financial and consultant services; electric companies and other large consumers; and non-industry or not-for-profit organizations such as academia, States, Native American Tribes, and professional societies.

**20c. How frequent and relevant are the Committee Meetings?**

The NPC meets in Washington, DC, once or twice a year and study groups meet as necessary. The time, place, and agenda of each Council and study group meeting are determined by its respective chair person, with the concurrence of the Department. The knowledge and experience that resides in the NPC provides a perspective on oil and natural gas issues and the oil and natural gas industries which is otherwise unavailable.

**20d. Why can't the advice or information this committee provides be obtained elsewhere?**

There are no other sources with the breadth, depth, and diversity of oil and gas technical and policy knowledge and expertise that the NPC provides. No other federal advisory committee currently performs, or is capable of performing, the functions of the NPC. It would not be possible for the Department to duplicate the knowledge and expertise embodied in the Council and its study committees in addressing important oil and gas

issues, e.g., by using alternative methods such as public hearings, contractor work efforts, or in-house study efforts.

**20e. Why is it necessary to close and/or partially closed committee meetings?**

N/A

**21. Remarks**

Originally established by the Department of the Interior in 1946 at the request of President Harry S. Truman and subsequently transferred to the Department of Energy in 1977, the National Petroleum Council (NPC) provides advice and recommendations to the Secretary of Energy on matters related to oil and natural gas, and the oil and natural gas industries. In 2017, Energy Secretary Rick Perry requested the NPC conduct two studies on U.S. Oil and Natural Gas Transportation Infrastructure and Carbon Capture, Use and Storage that are relevant to Administration objectives pertaining to U.S. energy dominance. In 2018, he also requested the NPC undertake an Arctic Potential supplemental assessment. In 2016, Secretary Ernest Moniz requested the NPC conduct an exercise to identify and scope potential study topics for the next Secretary, and also continue efforts to support DOE on emergency preparedness. In 2013, Secretary Moniz requested that the NPC conduct two strategic, short term studies to inform government decision making, specifically studies on natural gas and oil infrastructure resilience (Emergency Preparedness for Natural Disasters) completed in December 2014 and Arctic Research completed in March 2015. In 2009, Energy Secretary Steven Chu had requested the NPC undertake two major studies, continuing a tradition of NPC studies having the potential for broad public policy impact. The first NPC study, completed in 2011, assessed the character and potential of North American natural gas and oil resources and the contribution that natural gas can make in a transition to a lower carbon energy mix while achieving objectives of environmental protection, economic growth, and energy security. The second NPC study on future transportation fuels, completed in 2012, examined the prospects for integrating new fuels and vehicles into the marketplace and reducing greenhouse gas emissions in the U.S. transportation sector by 2050. Energy challenges addressed in the previous NPC study reports have included ensuring prudent development of the Nation's abundant oil and gas resources, reducing the Nation's reliance on oil imports and oil use in the transportation sector, and reducing greenhouse gas emissions that contribute to global climate change. Technology innovation, the capabilities of industry, and other factors will continue to be critical to meeting the future energy needs of American consumers and protecting the environment.

**Designated Federal Officer**

Steven Winberg Acting Assistant Secretary for Fossil Energy

Committee Members	Start	End	Occupation	Member Designation
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Akins, Nicholas	06/01/2018	12/31/2019	American Electric Power Co.	Representative Member
Alcorn, George	04/25/2016	10/10/2017	Alcorn Exploration, Inc.	Representative Member
Anderson Book, Allyson	06/01/2018	12/31/2019	American Geosciences Institute	Representative Member
Anderson, Robert	06/01/2018	12/31/2019	Wood MacKenzie Inc.	Representative Member
Andress, Thurmon	06/01/2018	12/31/2019	BreitBurn Energy LP	Representative Member
Anthony, Robert	06/01/2018	12/31/2019	Oklahoma Corporation Commission	Representative Member
Armstrong, Alan	06/01/2018	12/31/2019	The Williams Companies, Inc.	Representative Member
Armstrong, Gregory	06/01/2018	12/31/2019	Plains All American Pipeline, L.P.	Representative Member
Armstrong, Robert	06/01/2018	12/31/2019	Armstrong Energy Corporation	Representative Member
Armstrong, William	06/01/2018	12/31/2019	Armstrong Energy LLC	Representative Member
Arnold, Gregory	06/01/2018	12/31/2019	Truman Arnold Companies	Representative Member
Bailey, Vicky	06/01/2018	12/31/2019	Anderson Stratton Enterprises, LLC	Representative Member
Bastian, Edward	06/01/2018	12/31/2019	Delta Air Lines, Inc.	Representative Member
Baza, John	06/01/2018	12/31/2019	Utah Department of Natural Resources	Representative Member
Blount, Joseph	06/01/2018	12/31/2019	Colonial Pipeline Company	Representative Member
Book, Kevin	06/01/2018	12/31/2019	ClearView Energy Partners, LLC	Representative Member
Bookout, John	06/01/2018	12/31/2019	John F. Bookout	Representative Member
Boothby, Lee	06/01/2018	12/31/2019	Newfield Exploration Company	Representative Member
Bordoff, Jason	06/01/2018	12/31/2019	Columbia University	Representative Member
Bradie, Stuart	06/01/2018	12/31/2019	KBR, Inc.	Representative Member
Braziel, E. Russell	06/01/2018	12/31/2019	RBN Energy LLC	Representative Member
Brown, Albert	06/01/2018	12/31/2019	Southern Ute Indian Tribe Growth Fund	Representative Member
Brownstein, Mark	04/25/2016	06/01/2018	Environmental Defense Fund	Representative Member
Bruner, Jeffrey	06/01/2018	12/31/2019	Iroquois Pipeline Operating Company	Representative Member
Burke, Sharon	04/25/2016	06/01/2018	New America	Representative Member
Burman, Diane	06/01/2018	12/31/2019	New York State Public Service Commission	Representative Member
Callahan, Kateri	04/25/2016	06/01/2018	Alliance to Save Energy	Representative Member
Caplan, Deborah	06/01/2018	12/31/2019	NextEra Energy, Inc.	Representative Member
Catell, Robert	06/01/2018	12/31/2019	Stony Brook University	Representative Member

Chapelle, Harlan	06/01/2018 12/31/2019	Alta Mesa Resources, Inc.	Representative Member
Christmann, John	06/01/2018 12/31/2019	Apache Corporation	Representative Member
Cocklin, Kim	04/25/2016 06/01/2018	Atmos Energy Corporation	Representative Member
Cook, Linda	06/24/2016 06/01/2018	Harbour Energy, Ltd.	Representative Member
Cothran, Brian	04/25/2016 06/01/2018	GE Oil & Gas	Representative Member
Courtney, Richard	06/01/2018 12/31/2019	International-Matex Tank Terminals	Representative Member
Craddick, Christi	06/01/2018 12/31/2019	Railroad Commission of Texas	Representative Member
Craighead, Martin	04/25/2016 06/01/2018	Baker Hughes Incorporated	Representative Member
Crane, Christopher	06/01/2018 12/31/2019	Exelon Corporation	Representative Member
Croft, Helima	06/01/2018 12/31/2019	RBC Capital Markets Corporation	Representative Member
Crow, Trammel	06/01/2018 12/31/2019	Crow Family Foundation	Representative Member
Culpepper, Bruce	06/01/2018 12/31/2019	Shell Oil Company	Representative Member
Custard, William	06/01/2018 12/31/2019	Dallas Production, Inc.	Representative Member
Davidson, Charles	06/01/2018 12/31/2019	Quantum Energy Partners	Representative Member
Davis, Lisa	06/01/2018 12/31/2019	Siemens AG	Representative Member
Deluliis, Nicholas	06/01/2018 12/31/2019	CNX Resources Corporation	Representative Member
Deming, Claiborne	06/01/2018 12/31/2019	Murphy Oil Corporation	Representative Member
Denault, Leo	06/01/2018 12/31/2019	Entegry Corporation	Representative Member
Descalzi, Claudio	06/01/2018 12/31/2019	Enis S.p.A.	Representative Member
Deutch, John	04/25/2016 06/01/2018	Massachusetts Institute of Technology	Representative Member
Dismukes, David	06/01/2018 12/31/2019	Center for Energy Studies, Louisiana State University	Representative Member
Dove, Timothy	06/01/2018 12/31/2019	Pioneer Natural Resources Company	Representative Member
Downes, Laurence	06/01/2018 12/31/2019	New Jersey Resources	Representative Member
Dunlap, David	06/01/2018 12/31/2019	Superior Energy Services	Representative Member
Dunn, W. Byron	06/01/2018 12/31/2019	Tubular Synergy Group, LP	Representative Member
Duroc-Danner, Bernard	04/25/2016 06/01/2018	Weatherford International Ltd.	Representative Member
Ebel, Gregory	04/25/2016 06/01/2018	Spectra Energy Corp	Representative Member
Eisbrenner, Kathleen	04/25/2016 06/01/2018	NextDecade, LLC	Representative Member
Ellerbusch, Susan	06/01/2018 12/31/2019	Air Liquide USA LLC	Representative Member

England, John	06/01/2018 12/31/2019 Deloitte LLP	Representative Member
Engle, Timothy	06/01/2018 12/31/2019 Saltchuk Resources, Inc.	Representative Member
Erickson, Ronald	04/25/2016 06/01/2018 Holiday Companies	Representative Member
Evans, Andrew	06/01/2018 12/31/2019 Southern Gas Company	Representative Member
Ferriola, John	06/01/2018 12/31/2019 Nucor Corporation	Representative Member
Fesharaki, Fereidun	06/01/2018 12/31/2019 FACTS Global Energy	Representative Member
Fish, James	06/01/2018 12/31/2019 Waste Management Inc.	Representative Member
Fisher, William	04/25/2016 06/01/2018 The University of Texas	Representative Member
Flores, James	06/01/2018 12/31/2019 Sable Minerals, Inc.	Representative Member
Foster, Paul	06/01/2018 12/31/2019 Franklin Mountain Management, LLC	Representative Member
Foutch, Randy	06/01/2018 12/31/2019 Laredo Petroleum, Inc.	Representative Member
Fowke, Benjamin	06/01/2018 12/31/2019 Xcel Energy, Inc.	Representative Member
Fry, Thomas	06/01/2018 12/31/2019 Fry Advisors	Representative Member
Futcher, John	06/01/2018 12/31/2019 Bechtel Group, Inc.	Representative Member
Garland, Greg	06/01/2018 12/31/2019 Phillips 66 Company	Representative Member
Gee, Robert	04/25/2016 06/01/2018 Gee Strategies Group, LLC	Representative Member
Gerson, Elliot	04/25/2016 06/01/2018 The Aspen Institute	Representative Member
Ghasemi, Seifi	06/01/2018 12/31/2019 Air Products and Chemicals, Inc.	Representative Member
Gibbs, James	06/01/2018 12/31/2019 Five States Energy Company, LLC	Representative Member
Girling, Russell	06/01/2018 12/31/2019 TransCanada Corporation	Representative Member
Glendon, David	06/01/2018 12/31/2019 Sprague Resources LP	Representative Member
Glenn, Richard	06/01/2018 12/31/2019 Arctic Slope Regional Corporation	Representative Member
Glover, Paula	06/01/2018 12/31/2019 American Association of Blacks in Energy	Representative Member
Goldstein, Lawrence	06/01/2018 12/31/2019 Energy Policy Research Foundation, Inc.	Representative Member
Goldwyn, David	06/01/2018 12/31/2019 Goldwyn Global Strategies, LLC	Representative Member
Gorder, Joseph	06/01/2018 12/31/2019 Valero Energy Corporation	Representative Member
Gutierrez, Mauricio	06/01/2018 12/31/2019 NRG Energy, Inc.	Representative Member
Hackett, James	06/01/2018 12/31/2019 Riverstone Holdings LLC	Representative Member
Haefner, Michael	06/01/2018 12/31/2019 Atmos Energy Corporation	Representative Member

Harbert, Karen	06/01/2018 12/31/2019	Institute for 21st Century Energy	Representative Member
Harju, John	06/01/2018 12/31/2019	University of North Dakota	Representative Member
Hastings, Marilu	06/01/2018 12/31/2019	Cynthia and George Mitchell Foundation	Representative Member
Hess, John	06/01/2018 12/31/2019	Hess Corporation	Representative Member
Hightower, Jack	06/01/2018 12/31/2019	HighPeak Energy	Representative Member
Hightower, Stephen	06/01/2018 12/31/2019	Hightowers Petroleum Co.	Representative Member
Hildebrand, Jeffery	06/01/2018 12/31/2019	Hilcorp Energy Company	Representative Member
Hill, Ralph	04/25/2016 06/01/2018	New Gulf Resources, LLC	Representative Member
Hinchman, Steven	06/01/2018 12/31/2019	Scala Energy LLC	Representative Member
Hofmeister, John	06/01/2018 12/31/2019	Citizens for Affordable Energy, Inc.	Representative Member
Hoglund, Forrest	06/01/2018 12/31/2019	SeaOne Maritime Corp.	Representative Member
Hollub, Vicki	06/01/2018 12/31/2019	Occidental Petroleum Corporation	Representative Member
Holly, Bradley	06/01/2018 12/31/2019	Whiting Petroleum Corporation	Representative Member
Houston, Martin	06/01/2018 12/31/2019	Tellurian Investments	Representative Member
Hunt, Hunter	06/01/2018 12/31/2019	Hunt Consolidated Energy, LLC	Representative Member
Hunt, Ray	06/01/2018 12/31/2019	Hunt Consolidated, Inc.	Representative Member
Huntington, Hillard	06/01/2018 12/31/2019	Stanford University	Representative Member
Ice, Carl	06/01/2018 12/31/2019	Burlington Northern Santa Fe, LLC	Representative Member
Imaz, Jon J.	06/01/2018 12/31/2019	Repsol	Representative Member
Jacobs, Terrence	06/01/2018 12/31/2019	Penneco Oil Company	Representative Member
Jaffe, Amy	04/25/2016 06/01/2018	University of California	Representative Member
Jenkins, Roger	06/01/2018 12/31/2019	Murphy Oil Corporation	Representative Member
Johnson, Bradley	06/01/2018 12/31/2019	Ultra Petroleum Corp.	Representative Member
Jones, A.	06/01/2018 12/31/2019	Van Operating, Ltd.	Representative Member
Jones, James	06/01/2018 12/31/2019	Jones Group International	Representative Member
Jones, Jon	04/25/2016 06/01/2018	Jones Management Corp.	Representative Member
Julander, Fred	04/25/2016 12/13/2017	Julander Energy Company	Representative Member
Karsner, Alexander	04/25/2016 06/01/2018	Emerson Collective, LLC	Representative Member
Kean, Steven	06/01/2018 12/31/2019	Kinder Morgan	Representative Member

Kendall, Christian	06/01/2018 12/31/2019	Denbury Resources	Representative Member
Kibsgaard, Paal	06/01/2018 12/31/2019	Schlumberger Limited	Representative Member
Klavers, Kristine	06/01/2018 12/31/2019	Argus Media	Representative Member
Krenicki, John	06/01/2018 12/31/2019	Clayton, Dubilier & Rice, LLC	Representative Member
Kuuskraa, Vello	06/01/2018 12/31/2019	Advanced Resources International, Inc.	Representative Member
LaRossa, Ralph	04/25/2016 06/01/2018	Public Service Electric and Gas Company	Representative Member
Ladhani, Holli	06/01/2018 12/31/2019	Select Energy Services, Inc.	Representative Member
Lamp, David	06/01/2018 12/31/2019	CVR Energy	Representative Member
Lance, Ryan	06/01/2018 12/31/2019	ConocoPhillips Company	Representative Member
Larson, Roderick	06/01/2018 12/31/2019	Oceaneering International, Inc.	Representative Member
Lawler, Robert	06/01/2018 12/31/2019	Chesapeake Energy Corporation	Representative Member
Layton, Stephen	06/01/2018 12/31/2019	E&B Natural Resources Management Corporation	Representative Member
Leach, Timothy	06/01/2018 12/31/2019	Concho Resources Inc.	Representative Member
Leopold, Diane	06/01/2018 12/31/2019	Dominion Energy, Inc.	Representative Member
Lesar, David	04/25/2016 06/01/2018	Halliburton Company	Representative Member
Lieuwen, Timothy	06/01/2018 12/31/2019	Georgia Institute of Technology	Representative Member
Linn, Michael	06/01/2018 12/31/2019	MCL Ventures LLC	Representative Member
Liveris, Andrew	06/01/2018 12/31/2019	The Dow Chemical Company	Representative Member
Longhi, Mario	04/25/2016 06/01/2018	United States Steel Corporation	Representative Member
Lovins, Amory	04/25/2016 06/01/2018	Rocky Mountain Institute	Representative Member
Mack, Andrew	06/01/2018 12/31/2019	Alaska Department of Natural Resources	Representative Member
Madridejos, Ignacio	06/01/2018 12/31/2019	CEMEX USA	Representative Member
Maguire, Cary	06/01/2018 12/31/2019	Maguire Oil Company	Representative Member
Mannon, David	06/01/2018 12/31/2019	Stallion Oilfield Services	Representative Member
Matthews, Ross	06/01/2018 12/31/2019	Sinclair Oil Corporation	Representative Member
McCallister, Terry	06/01/2018 12/31/2019	WGL Holdings, Inc.	Representative Member
McCollum, Mark	06/01/2018 12/31/2019	Weatherford International plc	Representative Member
McGinnis, John	06/01/2018 12/31/2019	Seneca Resources Corporation	Representative Member
McNally, Robert	06/01/2018 12/31/2019	The Rapidan Group, LLC	Representative Member



McQuade, Rae	06/01/2018	12/31/2019	North American Energy Standards Board	Representative Member
Mears, Michael	06/01/2018	12/31/2019	Magellan Midstream Partners, L.P.	Representative Member
Medlock, Kenneth	06/01/2018	12/31/2019	Rice University - James A. Baker, III Institute for Public Policy	Representative Member
Meehan, D. Nathan	06/01/2018	12/31/2019	Society of Petroleum Engineers	Representative Member
Miller, Augustus	06/01/2018	12/31/2019	Miller Oil Company, Inc.	Representative Member
Miller, David	06/01/2018	12/31/2019	EnCap Investments L.P.	Representative Member
Miller, Jeffrey	06/01/2018	12/31/2019	Halliburton Company	Representative Member
Miller, Mark	06/01/2018	12/31/2019	Merlin Oil and Gas, Inc.	Representative Member
Miller, Merrill	04/25/2016	06/01/2018	DistributionNow	Representative Member
Minge, John	06/01/2018	12/31/2019	BP America Inc.	Representative Member
Monaco, Al	06/01/2018	12/31/2019	Enbridge Inc.	Representative Member
Morgan, Ken	06/01/2018	12/31/2019	Texas Christian University	Representative Member
Mullen, Patrick	06/01/2018	12/31/2019	Chicago Bridge & Iron Company N.V.	Representative Member
Murfin, David	06/01/2018	12/31/2019	Murfin Drilling Co., Inc.	Representative Member
Murphy, Mark	06/01/2018	12/31/2019	Strata Production Company	Representative Member
Musselman, James	06/01/2018	12/31/2019	Caelus Energy, LLC	Representative Member
Newell, Richard	06/01/2018	12/31/2019	Resources for the Future	Representative Member
Nichols, J. Larry	06/01/2018	12/31/2019	Devon Energy Corporation	Representative Member
Noonan, Patrick	04/25/2016	06/01/2018	The Conservation Fund	Representative Member
Northington, John	06/01/2018	12/31/2019	Northington Strategy Group	Representative Member
Norton, Pierce	06/01/2018	12/31/2019	ONE Gas, Inc.	Representative Member
Nusz, Thomas	06/01/2018	12/31/2019	Oasis Petroleum, LLC	Representative Member
O'Rourke, James	06/01/2018	12/31/2019	The Mosaic Company	Representative Member
Ottoson, Javan	06/01/2018	12/31/2019	SM Energy Compan	Representative Member
Paque, Michel	06/01/2018	12/31/2019	Ground Water Protection Council	Representative Member
Pastor, Stephen	06/01/2018	12/31/2019	BHP Billiton Petroleum	Representative Member
Patterson, T.M.	06/01/2018	12/31/2019	Basic Energy Services	Representative Member
Paul, Donald	06/01/2018	12/31/2019	University of Southern California	Representative Member
Perciaspe, Robert	04/25/2016	06/01/2018	Center for Climate and Energy Solutions	Representative Member

Pferdehirt, Douglas	09/19/2017 12/31/2019 TechnipFMC, plc	Representative Member
Platt, Jeffrey	04/25/2016 06/01/2018 Tidewater Inc.	Representative Member
Porges, David	06/01/2018 12/31/2019 EQT Corporation	Representative Member
Pouyanne', Patrick	06/01/2018 12/31/2019 Total S.A.	Representative Member
Pyne, Joseph	06/01/2018 12/31/2019 Kirby Corporation	Representative Member
Ramsey, Jeffrey	06/01/2018 12/31/2019 Flint Hills Resources, LLC	Representative Member
Raymond, Lee	06/01/2018 12/31/2019 Raymond, Lee R.	Representative Member
Reed, Debra	06/01/2018 12/31/2019 Sempra Energy	Representative Member
Reitan, Torgrim	06/01/2018 12/31/2019 Statoil ASA	Representative Member
Ressler, June	06/01/2018 12/31/2019 Cenergy Partners	Representative Member
Rich, Gary	06/01/2018 12/31/2019 Parker Drilling Company	Representative Member
Robertson, Corbin	06/01/2018 12/31/2019 Quintana Minerals Corporation	Representative Member
Robertson, Julie	06/01/2018 12/31/2019 Noble Corporation plc	Representative Member
Rocca, Paolo	04/25/2016 06/01/2018 Tenaris S.A.	Representative Member
Rogers, Matthew	06/01/2018 12/31/2019 McKinsey & Company	Representative Member
Rutherford, Marty	04/25/2016 06/01/2018 State of Alaska	Representative Member
Schatzman, Matthew	06/01/2018 12/31/2019 NextDecade, LLC	Representative Member
Schuller, Tisha	06/01/2018 12/31/2019 Stanford University	Representative Member
Seaton, David	06/01/2018 12/31/2019 Fluor Corporation	Representative Member
Seligmann, Peter	06/01/2018 12/31/2019 Conservation International	Representative Member
Shackouls, Bobby	06/01/2018 12/31/2019 The Carlyle Group	Representative Member
Sharp, Philip	04/25/2016 06/01/2018 Center on Global Energy Policy, Columbia University	Representative Member
Shinn, Bryan	04/25/2016 06/01/2018 U.S. Silica	Representative Member
Sikhtian, Suhail	06/01/2018 12/31/2019 The Goldman Sachs Group, Inc.	Representative Member
Simonelli, Lorenzo	06/01/2018 12/31/2019 Baker Hughes, a GE Company	Representative Member
Slifka, Eric	06/01/2018 12/31/2019 Global Partners LP	Representative Member
Smith, Carl Michael	04/25/2016 06/01/2018 Interstate Oil and Gas Compact Commission	Representative Member
Smith, Clark	06/01/2018 12/31/2019 Buckeye Partners, L.P.	Representative Member
Somerhalder, John	04/25/2016 06/01/2018 AGL Resources	Representative Member

Spencer, Terry	06/01/2018 12/31/2019 ONEOK, Inc.	Representative Member
Stanley, Charles	04/25/2016 06/01/2018 QEP Resources, Inc.	Representative Member
Stedman, Bert	06/01/2018 12/31/2019 Alaska State Legislature (The Energy Council)	Representative Member
Stevens, Todd	06/01/2018 12/31/2019 California Resources Corporation	Representative Member
Stewart, Lisa	06/01/2018 12/31/2019 Sheridan Production Partners	Representative Member
Stice, Travis	06/01/2018 12/31/2019 Diamondback Energy, Inc.	Representative Member
Stover, David	06/01/2018 12/31/2019 Noble Energy, Inc.	Representative Member
Suttles, Douglas	06/01/2018 12/31/2019 Encana Corporation	Representative Member
Teague, A. James	06/01/2018 12/31/2019 Enterprise Product Partners L.P.	Representative Member
Tew, Berry	06/01/2018 12/31/2019 State of Alabama	Representative Member
Thomas, William	06/01/2018 12/31/2019 EOG Resources	Representative Member
Tillman, Lee	06/01/2018 12/31/2019 Marathon Oil Corporation	Representative Member
Tinker, Scott	06/01/2018 12/31/2019 The University of Texas	Representative Member
Tosch, William	06/01/2018 12/31/2019 J.P. Morgan Securities Inc.	Representative Member
True, H.A.	06/01/2018 12/31/2019 True Oil LLC	Representative Member
Tudor, Robert	06/01/2018 12/31/2019 Tudor, Pickering, Holt & Co., LLC	Representative Member
Umpleby, D. James	06/01/2018 12/31/2019 Caterpillar Inc.	Representative Member
Vazquez, Jamie	04/25/2016 06/01/2018 W&T Offshore	Representative Member
Vennerberg, Vaughan	06/01/2018 12/31/2019 MorningStar Partners, LP	Representative Member
Ventura, Jeffrey	06/01/2018 12/31/2019 Range Resources Corporation	Representative Member
Verrastro, Frank	06/01/2018 12/31/2019 Center for Strategic and International Studies	Representative Member
Vincent-Callawn, Patricia	06/01/2018 12/31/2019 PNM Resources	Representative Member
Vincent, Bruce	06/01/2018 12/31/2019 Vincent and Company	Representative Member
Walker, John	06/01/2018 12/31/2019 EnerVest, Ltd.	Representative Member
Walker, R.	06/01/2018 12/31/2019 Anadarko Petroleum Corporation	Representative Member
Wallace, John	06/01/2018 12/31/2019 DeGolyer and MacNaughton	Representative Member
Warner, Cynthia	06/01/2018 12/31/2019 Andeavor	Representative Member
Warren, Kelcy	06/01/2018 12/31/2019 Energy Transfer Partners	Representative Member
Watford, Michael	04/25/2016 06/01/2018 Ultra Petroleum Corp.	Representative Member

Watson, John	04/25/2016 06/01/2018 Chevron Corporation	Representative Member
Watson, Weldon	09/19/2017 06/01/2018 The Energy Council	Representative Member
Way, William	06/01/2018 12/31/2019 Southwestern Energy Company	Representative Member
West, J. Robinson	06/01/2018 12/31/2019 Center for Energy Impact, The Boston Consulting Group	Representative Member
White, Craig	06/01/2018 12/31/2019 Philadelphia Gas Works	Representative Member
White, William	06/01/2018 12/31/2019 Lazard Freres & Co. LLC	Representative Member
Williams, David	04/25/2016 06/01/2018 Noble Corporation plc	Representative Member
Wilson, Elizabeth	06/01/2018 12/31/2019 Dartmouth University	Representative Member
Wilson, Mary Jane	06/01/2018 12/31/2019 WZI Inc.	Representative Member
Wirth, Michael	06/01/2018 12/31/2019 Chevron Corporation	Representative Member
Wise, Stan	04/25/2016 06/01/2018 State of Georgia	Representative Member
Wood, Patrick	06/01/2018 12/31/2019 Wood3 Resources	Representative Member
Woods, Darren	06/01/2018 12/31/2019 Exxon Mobil Corporation	Representative Member
Workman, Robert	06/01/2018 12/31/2019 DistributionNOW, Inc.	Representative Member
Wright, Karen	06/01/2018 12/31/2019 Ariel Corporation	Representative Member
Yates, George	06/01/2018 12/31/2019 HEYCO Energy Group, Inc.	Representative Member
Yergin, Daniel	06/01/2018 12/31/2019 IHS Markit	Representative Member
Young, John	04/25/2016 06/01/2018 Energy Future Holdings Corp.	Representative Member

**Number of Committee Members Listed: 250**

## Narrative Description

The findings and recommendations of NPC studies support more informed energy-related public policy decisions and the achievement of Department of Energy and Administration goals related to energy, the environment, and the economy, including actions to support U.S. energy dominance, enable responsible development of domestic oil and natural gas resources, and strengthen the Nation's infrastructure.

## What are the most significant program outcomes associated with this committee?

Checked if Applies

Improvements to health or safety

☐

Trust in government

☐

Major policy changes

☒

- |   |                                     |
|---|-------------------------------------|
| Advance in scientific research                    | <input type="checkbox"/>            |
| Effective grant making                            | <input type="checkbox"/>            |
| Improved service delivery                         | <input type="checkbox"/>            |
| Increased customer satisfaction                   | <input type="checkbox"/>            |
| Implementation of laws or regulatory requirements | <input type="checkbox"/>            |
| Other   | <input checked="" type="checkbox"/> |

### Outcome Comments

Prior outcomes have included more informed decisions by state and federal government on policy, research, and regulatory initiatives with substantial public benefit.

### What are the cost savings associated with this committee?

Checked if Applies

- |                            |                          |
|----------------------------|--------------------------|
| None                       | <input type="checkbox"/> |
| Unable to Determine        | <input type="checkbox"/> |
| Under \$100,000            | <input type="checkbox"/> |
| \$100,000 - \$500,000      | <input type="checkbox"/> |
| \$500,001 - \$1,000,000    | <input type="checkbox"/> |
| \$1,000,001 - \$5,000,000  | <input type="checkbox"/> |
| \$5,000,001 - \$10,000,000 | <input type="checkbox"/> |
| Over \$10,000,000          | <input type="checkbox"/> |
| Cost Savings Other         | <input type="checkbox"/> |

### Cost Savings Comments

The NPC's 2003 natural gas study showed that a balanced approach to future public policy decision making to increase energy efficiency, develop of new resources, and enable flexibility in fuel choice, could save U.S. consumers \$1 trillion in U.S. natural gas costs over the next 20 years. Other NPC studies have addressed topics of similar economic significance. For example, the NPC's 2015 Arctic Potential study identified actions that would enhance future national, economic and energy security, benefit the people of the North and the U.S. as a whole, and position the U.S. to exercise global leadership. Oil and gas development represented one-third of the State of Alaska's economic activity and provided 90% of the State's general funds in 2014. Projected net revenues to the State from Arctic OCS development if pursued could be about \$6.6 billion over 50 years, as discussed in the study report. The NPC's 2014 Emergency Preparedness study, and its 2016 Emergency Preparedness Implementation Addendum report, identified actions to continuously improve and ensure a state of readiness to respond to oil and gas supply chain disruptions arising from natural disasters; such actions can mitigate impacts on consumers and regional economies. The NPC's 2012

Future Transportation Fuels study identified technologies that could increase vehicle fuel economy and reduce greenhouse gas emissions from American transportation. Recommendations in the NPC's 2011 report on Prudent Development of North America's abundant natural gas and oil resources were evaluated from the perspectives of economic prosperity, environmental sustainability, and energy security. And, the potential benefits in all three areas was substantial. The NPC's 2007 study on global oil and natural gas provided insights for shaping energy policy that strengthens global energy security, economic prosperity, and environmental stewardship. The NPC's 2004 study on U.S. petroleum refining and inventories highlighted government actions that could enable petroleum markets to operate more efficiently or avoid significant petroleum product supply disruptions.

**What is the approximate Number of recommendations produced by this committee for the life of the committee?**

2,800

#### **Number of Recommendations Comments**

Based on prior experience, many NPC studies result in approximately 14 major recommendations, and some yield considerably more. In 70 years, the NPC has prepared over 200 reports dealing with virtually every aspect of oil and gas supply and demand. These reports have not only served as valuable tools in the development of energy policy but also have enabled government and industry to anticipate and jointly seek solutions to current and future energy problems.

**What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?**

30%

#### **% of Recommendations Fully Implemented Comments**

Estimates of how many NPC recommendations have been implemented may be subjective as NPC recommendations range in scope, specificity and timing. NPC recommendations often encompass broad public policy strategies for addressing the Nation's energy challenges. The implementation timespan for some recommendations such as those to enhance natural gas supply diversity or to sustain and enhance natural gas infrastructure, could span decades. Additionally, NPC recommendations may call for action by industry and/or government (including Congress, states, one or more federal agencies, or some combination).

**What is the approximate Percentage of these recommendations that have been or**

## **will be Partially implemented by the agency?**

45%

### **% of Recommendations Partially Implemented Comments**

Prior assessments have shown that government has made substantial progress in implementing up to 75% of the recommendations in some NPC studies. However, as discussed above, estimates of how many NPC recommendations have been implemented may be subjective. For example, the NPC's 2003 natural gas study resulted in four overarching recommendations to: 1) improve demand flexibility and efficiency, 2) increase supply diversity, 3) sustain and enhance natural gas infrastructure, and 4) promote efficiency of natural gas markets, and over 60 supporting recommendations.

Recommendations from the NPC's 2004 study on U.S. petroleum refining and inventories were more granular and addressed topics such as new source review reform, national ambient air quality standards, ultra low sulfur diesel regulations, national energy legislation, sound science, cost-effectiveness and energy analysis, and permitting, and actions by government on these topics continue to evolve. Numerous recommendations in these 2003 and 2004 NPC studies were reflected in national energy plans and initiatives, as well as provisions of the Energy Policy Act of 2005. The NPC's 2007 study report on global oil and gas outlined five core strategies to enable industry and government to more adequately address evolving trends in U.S. and global energy supply and demand, and contained over 40 supporting recommendations, which broadly helped to shape public and private sector dialogue, policy and investment on a range of topics including energy efficiency, carbon management, fuel diversity, and the geopolitics of energy for several years. Recommendations from the NPC's 2011 Prudent Development study reflected five core strategies to support prudent natural gas and oil resources development and regulation; better reflect environmental impacts in markets and fuel technology choices; enhance the efficient use of energy; enhance the functioning of energy markets; and, support the development of a skilled workforce. Recommendations in the NPC's 2012 Future Transportation study called on government to promote sustained funding and other resources, either separately or in combination with industry, on the pre-competitive aspects of 12 priority technologies, as well as in areas that could lead to disruptive innovations. The NPC's 2015 Arctic Potential study report included 32 recommendations in the executive summary addressing research, regulatory improvements, and leadership/policy considerations that aligned well with the Administration's all-of-the-above energy strategy and early U.S. Arctic policy, and an additional 60 specific research recommendations. The NPC's 2016 Emergency Preparedness Implementation Addendum summarized progress made in implementing the 2014 NPC report recommendations and opportunities for improvement.

**Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?**

Yes ☒ No ☐ Not Applicable ☐

**Agency Feedback Comments**

Feedback is provided to NPC members on the value of the committee's studies and recommendations through remarks made by the Secretary of Energy and Deputy Secretary of Energy at NPC meetings, by periodic reports on progress made to implement NPC recommendations, by DOE sharing information on the status of government actions related to NPC recommendations, and the frequent use of, or reference to, NPC studies by DOE and other government agencies. For example, in January 2008, the Secretary of Energy distributed copies of the Hard Truths report to all members of Congress and State governors. In May 2008, the Secretary sent a letter to the Council Chair that included a DOE review of actions taken by government consistent with recommendations contained in the NPC's 2007 Hard Truths report; and copies were subsequently provided to all NPC members. From 2011 through 2016, the work of the NPC had clear linkages to goals outlined in various government initiatives including the Administration's Blueprint for a Secure Energy Future, Quadrennial Energy Review, and National Strategy for the Arctic Region. Insights from the NPC's report on Future Transportation Fuels were also cited in Quadrennial Energy Technology reports.

**What other actions has the agency taken as a result of the committee's advice or recommendation?**

Checked if Applies

Reorganized Priorities	<input checked="" type="checkbox"/>
Reallocated resources	<input type="checkbox"/>
Issued new regulation	<input type="checkbox"/>
Proposed legislation	<input type="checkbox"/>
Approved grants or other payments	<input type="checkbox"/>
Other	<input checked="" type="checkbox"/>

**Action Comments**

Findings and recommendations from NPC studies serve as valuable input for government program and policy decision making. Technical data and insights on evolving oil and gas industry trends also serve as valuable input for energy forecasts prepared by the Energy Information Administration, an independent statistical agency of DOE.

**Is the Committee engaged in the review of applications for grants?**

No



## Grant Review Comments

NA

### How is access provided to the information for the Committee's documentation?

Checked if Applies

Contact DFO	<input type="checkbox"/>
Online Agency Web Site	<input checked="" type="checkbox"/>
Online Committee Web Site	<input checked="" type="checkbox"/>
Online GSA FACA Web Site	<input type="checkbox"/>
Publications	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

### Access Comments

A comprehensive summary of the NPC, including its purpose, membership and studies, is available at <http://www.npc.org>. Electronic copies of the NPC's reports and supporting materials including topical papers and presentations are also available at <http://www.npc.org>.